

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/862,855 G1
Source: 01 PE
Date Processed by STIC: 09/15/2005

ENTERED



OPE

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:25

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

```

3 <110> APPLICANT: Cai, Hong
4     Keller, Richard
5     Werner, James
6     Goodwin, Peter
8 <120> TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
10 <130> FILE REFERENCE: S-94,652
12 <140> CURRENT APPLICATION NUMBER: US 09/862,855G
13 <141> CURRENT FILING DATE: 2001-05-21
15 <160> NUMBER OF SEQ ID NOS: 21
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 20
21 <212> TYPE: DNA
22 <213> ORGANISM: Unknown
W--> 23 <220> FEATURE:
24 <223> OTHER INFORMATION: 20-mer probe complementary to 20 base pair region of M13mp18
target
25     containing EcoR I restriction site
27 <400> SEQUENCE: 1
28 gctcgaattc gtaatcatcg                               20
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 18
33 <212> TYPE: DNA
34 <213> ORGANISM: Unknown
W--> 35 <220> FEATURE:
36 <223> OTHER INFORMATION: 18-mer probe complementary to 18 base pair region of M13mp18
target
37     containing Hind III restriction site
39 <400> SEQUENCE: 2
40 cagtgccaaag cttcgatg                               18
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 97
45 <212> TYPE: DNA
46 <213> ORGANISM: Unknown
W--> 47 <220> FEATURE:
48 <223> OTHER INFORMATION: Synthetic chimera template derived from genes MLL(HRX,Htrx)
and AF4(FEL)
50 <400> SEQUENCE: 3
51 gaagttccca aaaccactcc tagtgagccc aagaaaaaagc agcctccacc accaaaaacaa   60
53 tatgatacat cttcaaaaac tcaactcaaat tctcagc                               97
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 27
58 <212> TYPE: DNA
59 <213> ORGANISM: Unknown

```

W--> 60 <220> **FEATURE:**

61 <223> OTHER INFORMATION: DNA probe sequence complementary to MLL portion of SEQ ID
NO:3

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:25

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

```

63 <400> SEQUENCE: 4
64 aaaaatttct tgggcttcac tagggag                                27
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 29
69 <212> TYPE: DNA
70 <213> ORGANISM: Unknown
W--> 71 <220> FEATURE:
72 <223> OTHER INFORMATION: DNA probe sequence complementary to AF4 portion of SEQ ID
NO:3
74 <400> SEQUENCE: 5
75 aaaaaaatttt gagtgagttt ttgaagatg                                29
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 12
80 <212> TYPE: DNA
81 <213> ORGANISM: Unknown
W--> 82 <220> FEATURE:
83 <223> OTHER INFORMATION: PNA probe sequence for MLL portion of SEQ ID NO:3
85 <400> SEQUENCE: 6
86 tttcttgggc tc                                                    12
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 12
91 <212> TYPE: DNA
92 <213> ORGANISM: Unknown
W--> 93 <220> FEATURE:
94 <223> OTHER INFORMATION: PNA probe sequence for AF4 portion of SEQ ID NO:3
96 <400> SEQUENCE: 7
97 tttgagtgag tt                                                    12
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 12
102 <212> TYPE: DNA
103 <213> ORGANISM: Unknown
W--> 104 <220> FEATURE:
105 <223> OTHER INFORMATION: LNA probe sequence for MLL portion of SEQ ID NO:3
107 <400> SEQUENCE: 8
108 tttcttgggc tc                                                    12
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 12
113 <212> TYPE: DNA
114 <213> ORGANISM: Unknown
W--> 115 <220> FEATURE:
116 <223> OTHER INFORMATION: LNA probe sequence for AF4 portion of SEQ ID NO:3
118 <400> SEQUENCE: 9
119 tttgagtgag tt                                                    12
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 32
124 <212> TYPE: DNA
125 <213> ORGANISM: Unknown
W--> 126 <220> FEATURE:
127 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
128          variant for the HLA gene

```

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:25

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

```

130 <400> SEQUENCE: 10
131 tggcagctca gaccaccaag cacaagtggg ag                      32
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 76
136 <212> TYPE: DNA
137 <213> ORGANISM: Unknown
W--> 138 <220> FEATURE:
139 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
140     variant for the HLA gene
142 <400> SEQUENCE: 11
143 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggagtggctc      60
145 cgcagatacc tggaga                      76
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 32
150 <212> TYPE: DNA
151 <213> ORGANISM: Unknown
W--> 152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
154     variant for the HLA gene
156 <400> SEQUENCE: 12
157 tggcagctca gaccaccaag cacaagtggg ag                      32
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 76
162 <212> TYPE: DNA
163 <213> ORGANISM: Unknown
W--> 164 <220> FEATURE:
165 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
166     variant for the HLA gene
168 <400> SEQUENCE: 13
169 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc      60
171 cgcagatacc tggaga                      76
174 <210> SEQ ID NO: 14
175 <211> LENGTH: 32
176 <212> TYPE: DNA
177 <213> ORGANISM: Unknown
W--> 178 <220> FEATURE:
179 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
180     variant for the HLA gene
182 <400> SEQUENCE: 14
183 tggcagctca gaccacccaa gacaagtggg ag                      32
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 76
188 <212> TYPE: DNA
189 <213> ORGANISM: Unknown
W--> 190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
192     variant for the HLA gene
194 <400> SEQUENCE: 15

```

195 ggggcccattg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc 60

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:25

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

```

197 cgcagataacc tggaga                                     76
200 <210> SEQ ID NO: 16
201 <211> LENGTH: 32
202 <212> TYPE: DNA
203 <213> ORGANISM: Unknown
W--> 204 <220> FEATURE:
205 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
206         variant for the HLA gene
208 <400> SEQUENCE: 16
209 tggcagctca gaccacccaa ggcaagtggg ag                                     32
212 <210> SEQ ID NO: 17
213 <211> LENGTH: 76
214 <212> TYPE: DNA
215 <213> ORGANISM: Unknown
W--> 216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
218         variant for the HLA gene
220 <400> SEQUENCE: 17
221 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggacgggctc       60
223 cgcagataacc tggaga                                     76
226 <210> SEQ ID NO: 18
227 <211> LENGTH: 32
228 <212> TYPE: DNA
229 <213> ORGANISM: Unknown
W--> 230 <220> FEATURE:
231 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
232         variant for the HLA gene
234 <400> SEQUENCE: 18
235 tggcagctca gaccacccaa ggcaagtggg ag                                     32
238 <210> SEQ ID NO: 19
239 <211> LENGTH: 76
240 <212> TYPE: DNA
241 <213> ORGANISM: Unknown
W--> 242 <220> FEATURE:
243 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
244         variant for the HLA gene
246 <400> SEQUENCE: 19
247 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc       60
249 cgcagataacc tggaga                                     76
252 <210> SEQ ID NO: 20
253 <211> LENGTH: 32
254 <212> TYPE: DNA
255 <213> ORGANISM: Unknown
W--> 256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
258         variant for the HLA gene
260 <400> SEQUENCE: 20
261 tggcagctca gaccacccaa ggcaagtggg ag                                     32

```

264 <210> SEQ ID NO: 21

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:25

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

265 <211> LENGTH: 76

266 <212> TYPE: DNA

267 <213> ORGANISM: Unknown

W--> 268 <220> FEATURE:

269 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence

270 variant for the HLA gene

272 <400> SEQUENCE: 21

273 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc 60

275 cgcagatacc tggaga 76

VERIFICATION SUMMARY

DATE: 09/15/2005

PATENT APPLICATION: US/09/862,855G

TIME: 11:44:26

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\I862855G.raw

L:23 M:283 W: Missing Blank Line separator, <220> field identifier
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <220> field identifier
L:71 M:283 W: Missing Blank Line separator, <220> field identifier
L:82 M:283 W: Missing Blank Line separator, <220> field identifier
L:93 M:283 W: Missing Blank Line separator, <220> field identifier
L:104 M:283 W: Missing Blank Line separator, <220> field identifier
L:115 M:283 W: Missing Blank Line separator, <220> field identifier
L:126 M:283 W: Missing Blank Line separator, <220> field identifier
L:138 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:204 M:283 W: Missing Blank Line separator, <220> field identifier
L:216 M:283 W: Missing Blank Line separator, <220> field identifier
L:230 M:283 W: Missing Blank Line separator, <220> field identifier
L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:256 M:283 W: Missing Blank Line separator, <220> field identifier
L:268 M:283 W: Missing Blank Line separator, <220> field identifier